



**Super Stationmaster™ Omni Fiberglass Antenna**

**Product Description**

Super Stationmaster VHF base station antennas incorporate the design features of 9 MHz broadband capability, improved lightning protection and true omnidirectional gain in excess of 5 dBd. Note: Below 150 MHz, rated gain is 4.8 dBd due to length constraints. Side mounting hardware is available for the 220 to achieve special radiation patterns. Vertical Beam Downtilt: the 220-DT may be ordered with 3° or 6° downtilt. Note: Operational gain and bandwidth are lessened with downtilt. The 220-DT is both reduced to 5.0 dBd gain and 1.5 MHz bandwidth. When downtilt antennas are ordered, exact frequency must be specified.



**Features/Benefits**

- **Fiberglass construction protects radiating elements in corrosive environments.**
- **DC grounded – affords lightning protection.**
- **Copper radiating elements minimize possibility of intermod generation.**

**Technical Features**

Frequency Band	VHF (25-299.9 MHz)
Horizontal Pattern	Omnidirectional
Antenna Type	Fiberglass Omni
Electrical Down Tilt Option	Fixed
Gain, dBi (dBd)	7.4 (5.3)
Frequency Range, MHz	142-150
Connector Type	N Female
Connector Location	Bottom
Mount Type	Fixed
Electrical Downtilt, deg	0

All information contained in the present datasheet is subject to confirmation at time of ordering.



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Orientation	Upright
Mounting Hardware	46 Clamp set
Rated Wind Speed, km/h (mph)	160 (100)
Gain (Omni), dBi (dBd)	7.39 (5.25)
VSWR	< 1.5:1
Vertical Beamwidth, deg	18
Polarization	Vertical
Maximum Power Input, W	500
Lightning protection	Direct Ground
3rd Order IMP @ 2 x 43 dBm, dBc	-130
Overall Length, m (ft)	5.85 (19.2)
Element Housing Length, m (ft)	5.12 (16.8)
Support Pipe Diameter, m (in)	0.07 (2.75)
Support Pipe Length, m (ft)	0.71 (2.33)
Weight, kg (lb)	11 (25)
Radiating Element Material	Copper
Element Housing Material	Fiberglass
Support Pipe Material	Aluminum Alloy
Max Wind Loading Area, m <sup>2</sup> (ft <sup>2</sup> )	0.202 (2.17)
Survival Wind Speed, km/h (mph)	200 (125)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe, N m (ft lbf)	1001 (738)
Side Thrust @ Rated Wind, N (lbf)	387 (87)
Shipping Weight, kg (lb)	21.8 (48)
Packing Dimensions - HxWxD, m (ft)	6.4 x 0.1 x 0.1 (21 x 0.33 x 0.33)
Shipping Dimensions of Accessory - HxWxD, m (ft)	Packed w/antenna
Shipping Mode	Common Carrier

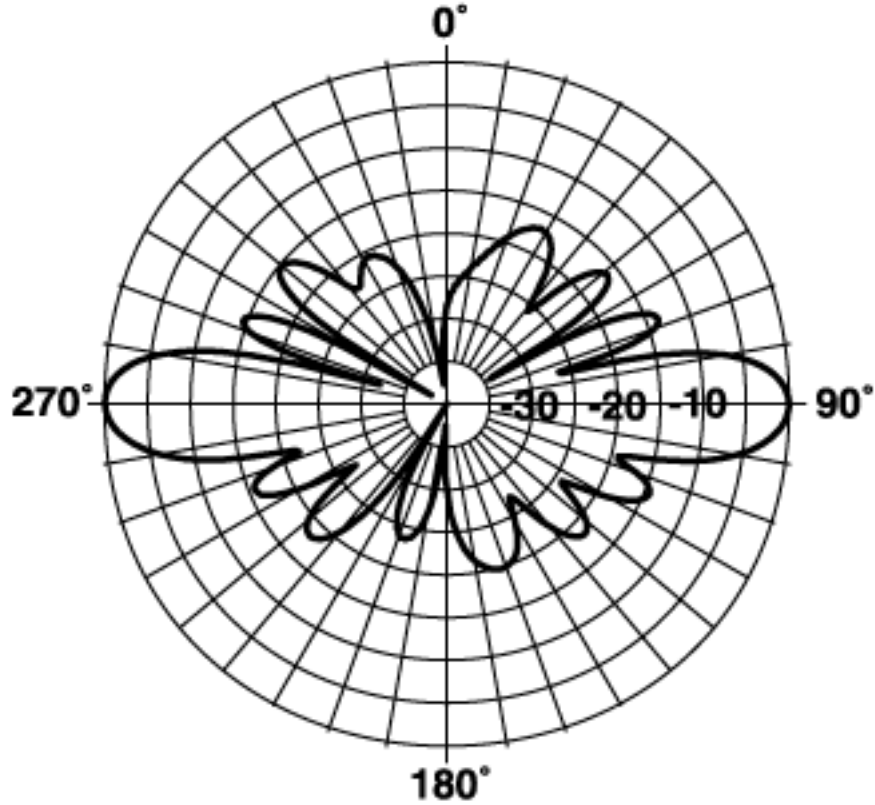
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Vertical Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELplot(TM) pattern reader and antenna pattern data fields from our website.)



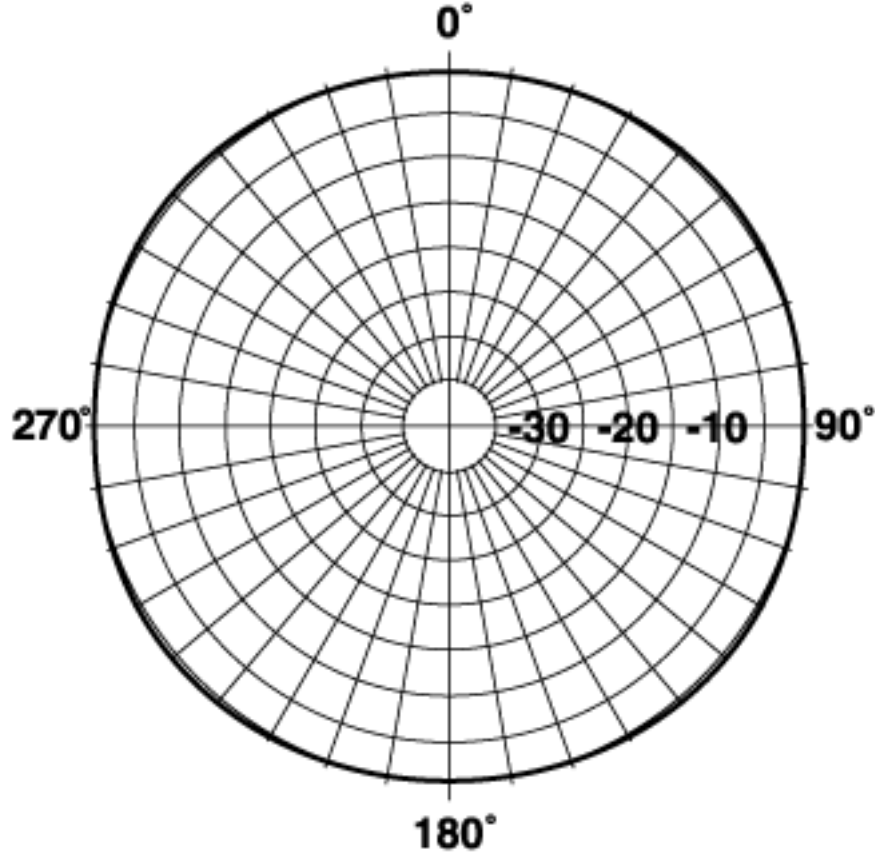
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